Remarks/Arguments:

Claims 1, 2, 4, 5, and 12-18 are pending in the application. Claims 3 and 6-11 are canceled. Claims 12-18 are new and fully supported by the specification.

Claims 1-6 stand rejected under 35 U.S.C. 103(a) as being unpatentable over DE 28 54 520 A1 in view of U.S. Patent No. 4,784, 916 to Burke.

DE 28 54 520 is directed to a device wherein a <u>flexible</u> duct is wound about the central axis of the core between layers of conducting material. Thus, the cooling passage(s) so formed by the duct are <u>spiral</u> in shape and substantially <u>perpendicular to the central axis</u> of the core. This reference does not teach, suggest, or otherwise provide motivation for any other orientation or any alternate construction for the cooling passages.

Burke, on the other hand, is directed to an induction heating system. In each of the embodiments, inherently flexible coils and cooling tubes are <u>spirally wound</u> so that they are again substantially <u>perpendicular to the central axis</u>. Burke also does not teach, suggest, or provide motivation for any other orientation of the coils or cooling tubes.

Applicant's invention comprises a duct for a transformer, and a transformer formed therewith a plurality of ducts. As amended, Applicant's claimed duct comprises a <u>rigid</u>, <u>high strength tube</u> of reinforced thermoplastic material. The rigid tube has an <u>elliptical</u> cross-section having a linear dimension that is greater than the width dimension. When installed in a transformer coil construction, the tube defines a cooling passage that is substantially <u>parallel to</u> the central <u>axis</u> of the transformer coil.

As amended, Applicant's dry-type, resin-encapsulated transformer coil comprises a plurality of layers formed from a continuous length of conductive sheet material that is wound about a central axis. A plurality of rigid tubes (cooling ducts) are placed between the plurality of layers of conductive sheet material along paths that are transverse to the length of the sheet material and parallel, not perpendicular, to the central axis.

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Both Applicant's tube and encapsulated transformer coil are substantially different constructions from DE 28 54 520 and Burke, either alone or in combination. Applicant submits, therefore, that the Examiner's rejection of Claims 1-6 must be withdrawn.

Applicant respectfully submits that the pending application is now in condition for an immediate allowance with Claims 1, 2, 4, 5, and 12-18, and such action is requested. If any matter remains unresolved, Applicant's counsel would appreciate the courtesy of a telephone call to resolve the matter.

Respectfully submitted,

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